OIPE
APR 0 6 2005

...et No: 42P10211

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)

)

     Bogia   )   Examiner: Jaroenchonwantit, Bunjob

)

Application No: 09/893,021   )   Art Unit: 2143

)

Filed: June 26, 2001   )

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For: Method for Managing an Appliance)

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION UNDER 37 CFR 1.131 IN SUPPORT OF PRIOR INVENTION
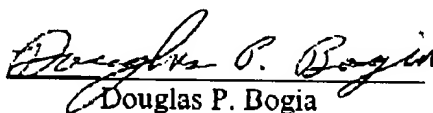
Sir :

I, Douglas P. Bogia declare:

1. I am an inventor of the claims of the above-captioned patent application ("the Application") and an inventor of the subject matter described therein.

2. Prior to March 30, 2001, the filing date of U.S. Patent Application Publication No. 2003/0018755 cited in an Office Action mailed January 6, 2005, the invention claimed in the Application had been conceived and reduced to practice in the United States.

3. Prior to June 21, 2001, the filing date of U.S. Patent Application Publication No. 2002/0016955 cited in the Office Action mailed January 6, 2005, the invention

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claimed in the Application had been conceived and reduced to practice in the United States.

4. Attached Exhibit A is a redacted copy of an invention disclosure form describing the design of the Method for Managing an Appliance, and establishes that the subject matter claimed in the Application had been reduced to practice in the United States prior to March 30, 2001.

I further declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application of any patent issuing thereon.

Dated: 4/1 _____, 2005   _____
                                              Douglas P. Bogia

Declaration Under Rule 1.131
in Support of Application
Application No. 09/651,437

(c) Does this invention relate to technology that is or will be covered by a SIG (special interest group)/standard/ or specification?

NO: __X__   YES: _____   Name of SIG/Standard/Specification: _____

(d) If the invention is embodied in a semiconductor device, actual or anticipated date of tapeout? _____

(e) If the invention is software, actual or anticipated date of any beta tests outside Intel __Unknown since it is concept__

7. Was the invention conceived or constructed in collaboration with anyone other than an Intel blue badge employee or in performance of a project involving entities other than Intel, e.g. government, other companies, universities or consortia?   NO: __X__ YES: ____   Name of individual or entity: _____

8. Is this invention related to any other invention disclosure that you have recently submitted? If so, please give the title and inventors: _____
_____

*HAVE YOUR SUPERVISOR READ, DATE AND SIGN COMPLETED FORM

DATE: __7/27/00__   SUPERVISOR: __Rick Crossa__

BY THIS SIGNING, I (SUPERVISOR) ACKNOWLEDGE THAT I HAVE READ AND UNDERSTAND THIS
DISCLOSURE, AND RECOMMEND THAT THE HONORARIUM BE PAID

1. **Describe in detail what the components of the invention are and how the invention works.**

First, here is a little history that lead up to this invention. On the Intel InBusiness Small Office Network product, SNO added an Appliance Monitoring feature that collecting information about the state and configuration of the appliance and emails this to an administrator. Once an administrator receives this email, it is possible that the administrator will become aware that some part of the configuration needs to be modified on the appliance. Currently, this requires the administrator to locate the appliance over either a LAN or the WAN (which is very difficult due to firewall and other security issues), connect to the appliance, navigate to the appropriate configuration page and then submit the alterations. This invention reduces the difficulty in making alterations to a configuration. Since the entire configuration is emailed to the administrator, it would be possible to extend the functionality of the Appliance Monitoring software to allow the administrator to alter the configuration and then email it back to the appliance. For security reasons, this email would need to be signed with something like PGP and possibly encrypted to ensure that others are not aware of the configuration of the appliance. Once this email is received by the appliance, it would make the appropriate alterations to the configuration (possibly at a time when the appliance is not in use if a reboot is needed).

This same mechanism could also be used to reduce the difficulty in doing remote management as well. Currently it is necessary for a remote administrator to call a person at the site location who has administrative privileges to request that they open a hole in the firewall. This means that true remote management does not exist since a local administrator must always be present at the site when administration is desired (albeit they may simply exist for the purpose of opening the firewall, not for true administration). By enabling this style of secure email administration, it would be possible to send an email that requests a temporary hole in the firewall to a particular IP address. When the appliance receives such an email, it could open the firewall and send a return email that remote access is available.
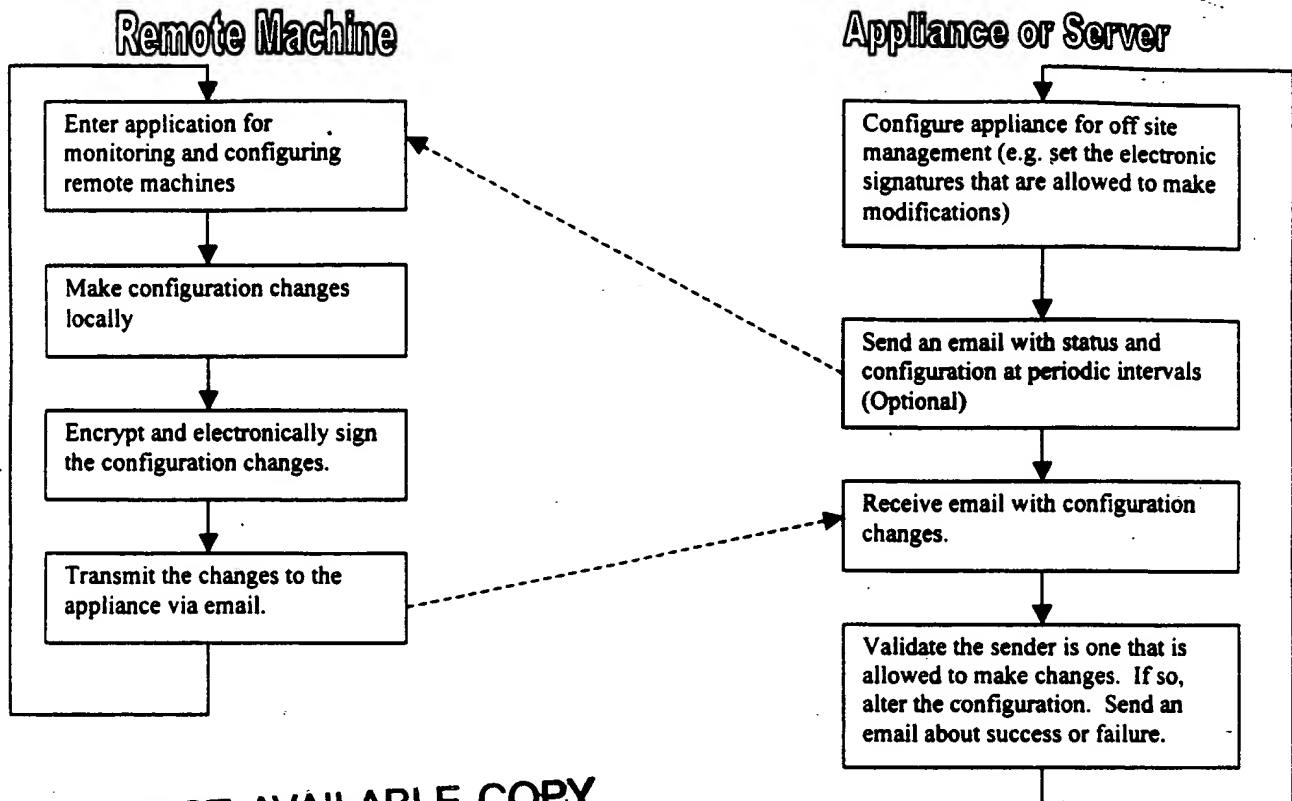
2. **Describe advantage(s) of your invention over what is done now.**

Current technologies of remote management require attaching directly to the unit to do configuration changes. With the Small Office Network, the periodic reports from the appliance lead to a possible desire to make changes without having to do a lot of work to connect to the appliance to make the

change. This invention provides a convenient solution to that need.

3. YOU MUST include at least one figure illustrating the invention.
    If the invention relates to software, include a flowchart
    or pseudo-code representation of the algorithm.

Remote Machine

Appliance or Server

| Enter application for monitoring and configuring remote machines |
| Make configuration changes locally |
| Encrypt and electronically sign the configuration changes. |
| Transmit the changes to the appliance via email. |

| Configure appliance for off site management (e.g. set the electronic signatures that are allowed to make modifications) |
| Send an email with status and configuration at periodic intervals (Optional) |
| Receive email with configuration changes. |
| Validate the sender is one that is allowed to make changes. If so, alter the configuration. Send an email about success or failure. |

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4. **Value of your invention to Intel (how will it be used?).**
This invention leverages the fact that some of the Intel appliances (and possibly servers in the future) are transmitting reports about their state and configuration on a periodic basis. While the administrator is reviewing this report, it may become clear that there are configuration problems that must be fixed. The value of this invention is that it reduces barriers for our customers who wish to make configuration changes. They can make the changes directly in the appliance monitoring application and all the connectivity to the machine and the invocation of those changes is handled transparently by the computer infrastructure rather than requiring the user to navigate through that system.

5. **Explain how your invention is novel. If the technology itself is not new,**
    explain what makes it different.
Traditional configuration management systems all require connecting to the machine to be configured. This invention utilizes (secure) email as the connection mechanism rather than requiring a direct connection.

6. **Identify the closest or most pertinent prior art that you are aware of.**
Configuration today is typically done via a web browser, a customized configuration application, or a management application such as HP Openview.

I suppose that another facility that has some similarity is email list servers. It is possible to send "commands" to listservers and have them carry out a set of actions such as Add user, Remove user, etc. This is not managing the server directly nor is it a secure mechansim, but there are some similarities.